

PLUS 4/9/04

Butler, Douglas

From: PLUS
Sent: Wednesday, April 07, 2004 9:22 AM
To: Butler, Douglas
Subject: PLUS Results for 10724759

Here are the PLUS search results for 10724759.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to PLUS@uspto.gov.



10724759_QUAL.txt



10724759_LIST.txt



10724759_WEST.txt



10724759_EAST.txt



10724759.east



10724759_CLS.txt



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10724759_LIST

PLUS Search Results for S/N 10724759, Searched April 07, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

5868315	6075428	4770089
6170522	6155607	4853057
4432080	6161514	4878467
4491225	6286820	4888095
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5400860	6595318	4979629
5664478	6619523	4985121
5796061	5923750	5023925
5851269	5203455	5178327
5947738	5964194	5189255
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4530224	6371240	5655642
4599884	4261931	5716110
4850263	4265839	5741128
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4919547	4277014	5771302
4957028	4279373	5823889
4986764	4280651	5827385
5214241	4280649	5864190
5225631	4295034	5922252
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5387780	4388785	6085664
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5454254	4466888	6142887
5487495	4475759	6182464
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5516260	4540911	6199415
5560280	4572375	6244977
5695350	4583932	6322056
5737925	4604876	6379241
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10724759_CLS
Most Frequently Occurring Classifications of Patents Returned
From A Search of 10724759 on April 07, 2004

Original Classifications

4 206/.5
3 415/115
2 70/209
2 123/184.42
2 173/162.2
2 280/728.3
2 435/290.1
2 439/139
2 473/374

Cross-Reference Classifications

5 239/59
4 229/120
4 239/57
3 123/184.61
3 229/125.125
2 70/226
2 92/130A
2 92/63
2 162/374
2 174/35R
2 220/239
2 220/592.27
2 229/125.19
2 242/566
2 261/DIG 88
2 267/122
2 267/64.27
2 277/653
2 277/919
2 277/920
2 277/921
2 280/741
2 415/191
2 415/209.2
2 415/209.3
2 473/354
2 473/370
2 473/606
2 524/908
2 525/232
2 525/236
2 525/237
2 D23/366

Combined Classifications

5 239/57
5 239/59
4 206/.5
4 229/120
3 92/63
3 123/184.61
3 229/125.125
3 280/728.3

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3 415/115
3 473/606
2 70/209
2 70/226
2 72/148
2 92/130A
2 92/48
2 102/531
2 123/184.42
2 123/184.47
2 162/352
2 162/374
2 173/162.2
2 174/35GC
2 174/35R
2 220/239
2 220/592.27
2 229/125.19
2 239/56
2 242/566
2 261/DIG 88
2 267/122
2 267/64.21
2 267/64.24
2 267/64.27
2 277/646
2 277/653
2 277/919
2 277/920
2 277/921
2 280/732
2 280/741
2 384/100
2 415/191
2 415/209.2
2 415/209.3
2 435/290.1
2 439/139
2 473/354
2 473/370
2 473/374
2 524/908
2 525/232
2 525/236
2 525/237
2 D23/366

10724759_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 10724759 on April 07, 2004

5 239/57 (1 OR, 4 XR)
 Class 239 : FLUID SPRINKLING, SPRAYING, AND DIFFUSING
 239/34 SLOW DIFFUSERS
 239/57 .With support for porous or apertured encasing
 means

5 239/59 (0 OR, 5 XR)
 Class 239 : FLUID SPRINKLING, SPRAYING, AND DIFFUSING
 239/34 SLOW DIFFUSERS
 239/58 .With means to adjust casing porosity or
 openings
 239/59 ..By alignment of apertured members

4 206/.5 (4 OR, 0 XR)
 Class 206 : SPECIAL RECEPTACLE OR PACKAGE
 206/.5 INFUSION CONTAINING

4 229/120 (0 OR, 4 XR)
 Class 229 : ENVELOPES, WRAPPERS, AND PAPERBOARD BOXES
 229/100 PAPERBOARD BOX
 229/120 .With venting or ventilation means

3 92/63 (1 OR, 2 XR)
 Class 092 : EXPANSIBLE CHAMBER DEVICES
 92/61 RELATIVELY MOVABLE WORKING MEMBERS
 92/62 .First working member moves second coaxial
 working member through separating abutment surfaces
 92/63 ..With separate biasing means for a working
 member

3 123/184.61 (0 OR, 3 XR)
 Class 123 : INTERNAL-COMBUSTION ENGINES
 123/184.21 INTAKE MANIFOLD
 123/184.61 .Manifold material or composition

3 229/125.125 (0 OR, 3 XR)
 Class 229 : ENVELOPES, WRAPPERS, AND PAPERBOARD BOXES
 229/100 PAPERBOARD BOX
 229/124 .With closure for an access opening
 229/125.01 ..Nonunitary closure (i.e., not of one-piece
 construction with the box)
 229/125.12 ...Laterally slidable closure element (i.e.,
 slides across access opening)
 229/125.125Sleevelike closure element

3 280/728.3 (2 OR, 1 XR)
 Class 280 : LAND VEHICLES
 280/29 WHEELED
 280/727 .Attachment
 280/728.1 ..Inflatable passenger restraint or confinement
 (e.g., air bag) or attachment
 280/728.3 ...Deployment door

3 415/115 (3 OR, 0 XR)
 Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

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415/115 WITH PASSAGE IN BLADE, VANE, SHAFT OR ROTARY
DISTRIBUTOR COMMUNICATING WITH WORKING FLUID

- 3 473/606 (1 OR, 2 XR)
Class 473 : GAMES USING TANGIBLE PROJECTILE
473/569 PROJECTILE, PER SE; PART THEREOF OR ACCESSORY
THEREFOR
473/604 .Having hollow core or bladder enclosed within
cover (e.g., basketball, soccer-ball, tennis ball, etc.)
473/606 ..Cover is composed of feltlike, napped, or
cloth material (e.g., tennis ball, etc.)
- 2 70/209 (2 OR, 0 XR)
Class 070 : LOCKS
70/57 SPECIAL APPLICATION
70/174 .For control and machine elements
70/207 ..Handle, handwheel or knob
70/209 ...Rotary or swinging
- 2 70/226 (0 OR, 2 XR)
Class 070 : LOCKS
70/57 SPECIAL APPLICATION
70/174 .For control and machine elements
70/225 ..Wheel
70/226 ...Rotation blocking
- 2 72/148 (1 OR, 1 XR)
Class 072 : METAL DEFORMING
72/127 BY DEFLECTING SUCCESSIVELY-PRESENTED PORTIONS
OF WORK DURING BODILY MOVEMENT THEREOF (E.G., FOR COILI
NG,
LEVELLING, CURVING OR TROUGHING MATERIAL IN MOVEMENT)
72/146 .To form spiral coil
72/148 ..With core inside coil
- 2 92/130A (0 OR, 2 XR)
Class 092 : EXPANSIBLE CHAMBER DEVICES
92/130R WITH SEPARATE BIASING MEANS FOR WORKING MEMBER
92/130A .Bias normally held inoperative by fluid
pressure
- 2 92/48 (1 OR, 1 XR)
Class 092 : EXPANSIBLE CHAMBER DEVICES
92/48 PLURAL FLEXIBLE WALL WORKING MEMBERS
- 2 102/531 (1 OR, 1 XR)
Class 102 : AMMUNITION AND EXPLOSIVES
102/530 JACKETED OR CARTRIDGE GAS GENERATOR
102/531 .For gas-powered tools or means
- 2 123/184.42 (2 OR, 0 XR)
Class 123 : INTERNAL-COMBUSTION ENGINES
123/184.21 INTAKE MANIFOLD
123/184.38 .For in-line engine
123/184.42 ..Manifold having plenum
- 2 123/184.47 (1 OR, 1 XR)

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- Class 123 : INTERNAL-COMBUSTION ENGINES
 123/184.21 INTAKE MANIFOLD
 123/184.47 .Manifold having plenum
- 2 162/352 (1 OR, 1 XR)
 Class 162 : PAPER MAKING AND FIBER LIBERATION
 162/232 APPARATUS
 162/289 .Running or indefinite length product forming
 and/or treating means
 162/348 ..Flexible endless band type mold (e.g.,
 Fourdrinier)
 162/351 ...Means retarding or controlling drainage
 through mold
 162/352Wire bottom scrappers or deflectors
- 2 162/374 (0 OR, 2 XR)
 Class 162 : PAPER MAKING AND FIBER LIBERATION
 162/232 APPARATUS
 162/289 .Running or indefinite length product forming
 and/or treating means
 162/363 ..Suction devices
 162/374 ...Wear face structures and materials
- 2 173/162.2 (2 OR, 0 XR)
 Class 173 : TOOL DRIVING OR IMPACTING
 173/162.1 INCLUDING MEANS TO VIBRATIONALLY ISOLATE A
 DRIVE MEANS FROM ITS HOLDER
 173/162.2 .Handle type holder
- 2 174/35GC (1 OR, 1 XR)
 Class 174 : ELECTRICITY: CONDUCTORS AND INSULATORS
 174/32 ANTI-INDUCTIVE STRUCTURES
 174/35R .Shielded or screened
 174/35GC ..Gaskets, covers
- 2 174/35R (0 OR, 2 XR)
 Class 174 : ELECTRICITY: CONDUCTORS AND INSULATORS
 174/32 ANTI-INDUCTIVE STRUCTURES
 174/35R .Shielded or screened
- 2 220/239 (0 OR, 2 XR)
 Class 220 : RECEPTACLES
 220/200 CLOSURES
 220/233 .Externally adjustable plug or gasket
 220/239 ..Fluid pressure
- 2 220/592.27 (0 OR, 2 XR)
 Class 220 : RECEPTACLES
 220/592.01 RECEPTACLE HAVING MEANS TO FACILITATE
 MAINTAINING CONTENTS ABOVE OR BELOW AMBIENT TEMPERATURE
 (E.G., COMPARTMENT FOR HOLDING A HEAT EXCHANGE MEDIUM)
 220/592.2 .Thermally insulated receptacle
 220/592.27 ..Vacuum insulation
- 2 229/125.19 (0 OR, 2 XR)
 Class 229 : ENVELOPES, WRAPPERS, AND PAPERBOARD BOXES
 229/100 PAPERBOARD BOX
 229/124 .With closure for an access opening
 229/125.01 ..Nonunitary closure (i.e., not of one-piece

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construction with the box)

229/125.19 ...Closure includes a depending flange or tab
which extends along an adjacent box wall

- 2 239/56 (1 OR, 1 XR)
 - Class 239 : FLUID SPRINKLING, SPRAYING, AND DIFFUSING
 - 239/34 SLOW DIFFUSERS
 - 239/53 .Liquid supply in absorbent or porous media
only
 - 239/55 ..With enclosing casing
 - 239/56 ...Pad type
- 2 242/566 (0 OR, 2 XR)
 - Class 242 : WINDING, TENSIONING, OR GUIDING
 - 242/550 UNWINDING
 - 242/566 .With particular guide or guard
- 2 261/DIG 88 (0 OR, 2 XR)
 - Class 261 : GAS AND LIQUID CONTACT APPARATUS
 - 261/DIG 88 AROMA DISPENSERS
- 2 267/122 (0 OR, 2 XR)
 - Class 267 : SPRING DEVICES
 - 267/113 FLUID
 - 267/118 .Expansible-contractible chamber device
 - 267/122 ..Diaphragm or bellows
- 2 267/64.21 (1 OR, 1 XR)
 - Class 267 : SPRING DEVICES
 - 267/2 VEHICLE
 - 267/64.11 .Comprising compressible fluid
 - 267/64.15 ..With retarder
 - 267/64.16 ...Leveling device
 - 267/64.19Having flexible wall
 - 267/64.21Including rolling lobe between telescoping
members
- 2 267/64.24 (1 OR, 1 XR)
 - Class 267 : SPRING DEVICES
 - 267/2 VEHICLE
 - 267/64.11 .Comprising compressible fluid
 - 267/64.15 ..With retarder
 - 267/64.23 ...Having flexible wall
 - 267/64.24Including rolling lobe between telescoping
members
- 2 267/64.27 (0 OR, 2 XR)
 - Class 267 : SPRING DEVICES
 - 267/2 VEHICLE
 - 267/64.11 .Comprising compressible fluid
 - 267/64.27 ..Having flexible wall
- 2 277/646 (1 OR, 1 XR)
 - Class 277 : SEAL FOR A JOINT OR JUNCTURE
 - 277/590 SEAL BETWEEN FIXED PARTS OR STATIC CONTACT
AGAINST RELATIVELY MOVABLE PARTS
 - 277/628 .Contact seal for other than internal
combustion engine, or pipe, conduit, or cable
 - 277/644 ..Particular cross-sectional seal profile

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- 277/645 ...Hollow or filled chamber
277/646Inflatable
- 2 277/653 (0 OR, 2 XR)
Class 277 : SEAL FOR A JOINT OR JUNCTURE
277/590 SEAL BETWEEN FIXED PARTS OR STATIC CONTACT
AGAINST RELATIVELY MOVABLE PARTS
277/628 .Contact seal for other than internal
combustion engine, or pipe, conduit, or cable
277/650 ..Particular sealing material or construction

277/652 ...Distinct sheath or covering
277/653Metal
- 2 277/919 (0 OR, 2 XR)
Class 277 : SEAL FOR A JOINT OR JUNCTURE
277/919 SEAL INCLUDING ELECTRICAL FEATURE
- 2 277/920 (0 OR, 2 XR)
Class 277 : SEAL FOR A JOINT OR JUNCTURE
277/920 SEAL INCLUDING ELECTROMAGNETIC SHIELDING
FEATURE
- 2 277/921 (0 OR, 2 XR)
Class 277 : SEAL FOR A JOINT OR JUNCTURE
277/921 CLOSURE OR WEATHER STRIP SEAL
- 2 280/732 (1 OR, 1 XR)
Class 280 : LAND VEHICLES
280/29 WHEELED
280/727 .Attachment
280/728.1 ..Inflatable passenger restraint or confinement
(e.g., air bag) or attachment
280/732 ...Deflated confinement located in or on
instrument panel
- 2 280/741 (0 OR, 2 XR)
Class 280 : LAND VEHICLES
280/29 WHEELED
280/727 .Attachment
280/728.1 ..Inflatable passenger restraint or confinement
(e.g., air bag) or attachment
280/741 ...Inflation fluid source
- 2 384/100 (1 OR, 1 XR)
Class 384 : BEARINGS
384/91 ROTARY BEARING
384/100 .Fluid bearing
- 2 415/191 (0 OR, 2 XR)
Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS
415/182.1 WORKING FLUID PASSAGE OR DISTRIBUTING MEANS
ASSOCIATED WITH RUNNER (E.G., CASING, ETC.)
415/183 .Plural distributing means immediately upstream
of runner
415/185 ..Arcuately or circularly arranged around
runner axis
415/191 ...Vanes

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- 2 415/209.2 (0 OR, 2 XR)
 Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS
 415/182.1 WORKING FLUID PASSAGE OR DISTRIBUTING MEANS
 ASSOCIATED WITH RUNNER (E.G., CASING, ETC.)
 415/208.1 .Vane or deflector
 415/208.2 ..Plural and arcuately or circularly arranged
 in radial plane around runner axis
 415/209.2 ...Having means for mounting diaphragm or
 plural vane holder to casing
- 2 415/209.3 (0 OR, 2 XR)
 Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS
 415/182.1 WORKING FLUID PASSAGE OR DISTRIBUTING MEANS
 ASSOCIATED WITH RUNNER (E.G., CASING, ETC.)
 415/208.1 .Vane or deflector
 415/208.2 ..Plural and arcuately or circularly arranged
 in radial plane around runner axis
 415/209.3 ...Having specific vane mounting means
- 2 435/290.1 (2 OR, 0 XR)
 Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY
 435/283.1 APPARATUS
 435/289.1 .Bioreactor
 435/290.1 ..Composting apparatus
- 2 439/139 (2 OR, 0 XR)
 Class 439 : ELECTRICAL CONNECTORS
 439/135 WITH CONTACT PREVENTER OR RETRACTABLE COVER
 PART
 439/136 .Movably mounted
 439/137 ..Moved by mating connector
 439/138 ...Moved about an axis
 439/139Connector moved rectilinearly for
 engagement, preventer or cover moved about axis parallel
 to
 direction of connector movement
- 2 473/354 (0 OR, 2 XR)
 Class 473 : GAMES USING TANGIBLE PROJECTILE
 473/131 GOLF
 473/351 .Ball
 473/354 ..Liquid interior
- 2 473/370 (0 OR, 2 XR)
 Class 473 : GAMES USING TANGIBLE PROJECTILE
 473/131 GOLF
 473/351 .Ball
 473/367 ..Interior includes injected or compressed
 material
 473/370 ...Diverse layer between shperical core and
 cover
- 2 473/374 (2 OR, 0 XR)
 Class 473 : GAMES USING TANGIBLE PROJECTILE
 473/131 GOLF
 473/351 .Ball
 473/371 ..Particular unitary or layered construction
 473/374 ...Diverse layer between spherical core and

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cover

2 524/908 (0 OR, 2 XR)

Class 524 : SYNTHETIC RESINS OR NATURAL RUBBERS -- PART
OF THE CLASS 520 SERIES524/908 COMPOSITION HAVING SPECIFIED SHAPE, E.G., ROD,
STICK, OR BALL, ETC., AND OTHER THAN SHEET, FILM, OR FIBER

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2 525/232 (0 OR, 2 XR)

Class 525 : SYNTHETIC RESINS OR NATURAL RUBBERS -- PART
OF THE CLASS 520 SERIES525/50 .MIXING OF TWO OR MORE SOLID POLYMERS; MIXING
OF SOLID POLYMER OR SICP WITH SICP OR SPFI; MIXING OF

SICP

WITH AN ETHYLENIC AGENT; MIXING OF SOLID POLYMER WITH

A

CHEMICAL TREATING OR ETHYLENIC AGENT; OR PROCESSES OF
FORMING OR REACTING; OR THE RESULTANT PRODUCT OF ANY OF

F THE

ABOVE OPERATIONS

525/55 ..At least one solid polymer derived from
ethylenic reactants only525/191 ...Polymer mixture of two or more solid
polymers derived from ethylenically unsaturated reactant

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only; or mixtures of said polymer mixture with a chemical

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treating agent; or products or processes of preparing any

Y

of the above mixtures

525/232Solid polymer derived from reactant
containing at least two ethylenic groups and is devoid of
aryl ring

2 525/236 (0 OR, 2 XR)

Class 525 : SYNTHETIC RESINS OR NATURAL RUBBERS -- PART
OF THE CLASS 520 SERIES

525/50 .MIXING OF TWO OR MORE SOLID POLYMERS; MIXING

OF SOLID POLYMER OR SICP WITH SICP OR SPFI; MIXING OF

SICP

WITH AN ETHYLENIC AGENT; MIXING OF SOLID POLYMER WITH

A

CHEMICAL TREATING OR ETHYLENIC AGENT; OR PROCESSES OF
FORMING OR REACTING; OR THE RESULTANT PRODUCT OF ANY

OF THE

ABOVE OPERATIONS

525/55 ..At least one solid polymer derived from
ethylenic reactants only525/191 ...Polymer mixture of two or more solid
polymers derived from ethylenically unsaturated reactant

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only; or mixtures of said polymer mixture with a chemical

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treating agent; or products or processes of preparing any

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of the above mixtures

525/232Solid polymer derived from reactant

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containing at least two ethylenic groups and is devoid o

f

aryl ring

525/236At least two polymers derived from
reactants containing two or more ethylenic groups and
devoid of an aryl ring

2 525/237 (0 OR, 2 XR)

Class 525 : SYNTHETIC RESINS OR NATURAL RUBBERS -- PART
OF THE CLASS 520 SERIES

525/50 .MIXING OF TWO OR MORE SOLID POLYMERS; MIXING
OF SOLID POLYMER OR SICP WITH SICP OR SPFI; MIXING O

F SICP

WITH AN ETHYLENIC AGENT; MIXING OF SOLID POLYMER WIT

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CHEMICAL TREATING OR ETHYLENIC AGENT; OR PROCESSES O

F

FORMING OR REACTING; OR THE RESULTANT PRODUCT OF ANY

OF THE

ABOVE OPERATIONS

525/55 ..At least one solid polymer derived from
ethylenic reactants only

525/191 ...Polymer mixture of two or more solid
polymers derived from ethylenically unsaturated reacta

nts

only; or mixtures of said polymer mixture with a chemi

cal

treating agent; or products or processes of preparing

any

of the above mixtures

525/232Solid polymer derived from reactant
containing at least two ethylenic groups and is devoid

of

aryl ring

525/236At least two polymers derived from
reactants containing two or more ethylenic groups and
devoid of an aryl ring

525/237At least one of these polymers is derived
from two or more reactants

2 D23/366 (0 OR, 2 XR)

Class D23 : ENVIRONMENTAL HEATING AND COOLING; FLUID
HANDLING AND SANITARY EQUIPMENT

D23/314 HEATING OR COOLING

D23/355 .Air treatment

D23/366 ..Deodorizer or ozonizer (28)